

ABSTRACT OF THE DISCLOSURE

5 A monolithic multiple-wavelength laser device includes a laser section of a first wavelength and a laser section of a second wavelength formed on a single GaAs substrate, wherein the laser section of the first wavelength includes a real guide structure, and the laser section of the second wavelength includes a loss guide structure. In such a multiple-wavelength laser device, loss in wave guiding can be reduced and operating current can be decreased, compared to a conventional device, when the first wavelength is within a wavelength band of about 780 nm and the second wavelength is within a wavelength band of about 650 nm, since the laser section of the first wavelength has the real guide structure.

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